Humanities

Cydney Livingston ('22)
The Human Betterment League: Sterilization, contraception, and family planning in Postwar North Carolina
Mentor: Evan Hepler-Smith

Interdisciplinary

Euna Cho ('22)
Evaluating the Effect of Interactive Art on Medical Students’ Psychological Wellbeing
Mentor: Kearsley Stewart

Zizai Cui ('23)
Mathematics of the Mind
Mentor: Ingrid Daubechies

Isaiah Mason ('22)
Crossing the Cultural Divide: Healthcare Access for African Migrants in Northern and Southern Italy
Mentor: Roberto Dainotto

Holland Stam ('22)
Janson's History of Art v. Auction Trends
Mentor: Hans Van Miegroet

Ying Yu ('23)
Temporal Processing in Tonal and Atonal Music
Mentor: Tobias Overath

Life Sciences

Alexander Behura ('22)
Establishing Wnt signaling-mediated pro-arrhythmic cardiac remodeling
Mentor: Andrew Landstrom

Julia Choi ('22)
Analysis of locomotor power in primates
Mentor: Daniel Schmitt
Alina Feng ('23)
Characterization of genes interacting with matrix metalloproteinases during cell invasion in C. elegans.
Mentor: David Sherwood

Ashwin Kulshrestha ('22)
Enhancement of an in vitro DART-seq Assay for the Detection of N6-Methyladenosine
Mentor: Kate Meyer

Erica Langan ('22)
Single cell transcriptome analysis to elucidate the cellular composition of murine submucosal glands
Mentor: Purushothama Rao Tata

Grace Lee ('23)
Mapping the contributions of distinct cellular populations in regulating head orientation in the superior colliculus
Mentor: Henry Yin

Seayoung Lee ('22)
Tumor Immunobiological Factors in Lymphovascular Invasion of Inflammatory Breast Cancer
Mentor: Gayathri Devi

Alexandra Markunas ('22)
Lentiviral Delivery of Optogenetic Voltage Indicator to Examine Cardiac Repolarization Abnormalities Associated with Variant in TBX5 Gene
Mentor: Andrew Landstrom

Andrew Nguyen ('22)
Elucidating SRCP1's Therapeutic Potential on Tau Pathology
Mentor: Matt Scaglione

Brinda Raghavendra ('23)
Functional dissection of reproductive-to-brain circuits for social and affective states
Mentor: Jenna McHenry

Pratamesh Ramasubramanian ('23)
Evaluating NK Cell and Monocyte Contribution to ADCC response elicited by Infant Candidate Vaccines using Area Scaling Analysis
Mentor: Justin Pollara

Daniel Ryan ('22)
Characterizing the Influence of the Mosquito Microbiome in Regulating Aryl Hydrocarbon Receptor Activity
Mentor: Emily Derbyshire

Denise Shkurovich ('22)
Effects of posture and locomotion on grasping mechanics across primates
Mentor: Daniel Schmitt
Brennan Simon ('22)
Identification of an integrin alpha 3/alpha 6 mediated mechanism of leptomeningeal metastasis in triple negative breast cancer
Mentor: Dorothy Sipkins

Linda Tang ('22)
Characterizing an in vivo Mice Model for Studying Senescence in Hepatocytes
Mentor: Anna Mae Diehl

Arthi Vaidyanathan ('22)
Identification and Mechanistic Analysis of Environmental Pathogens with TNF-dependent Clearance
Mentor: Edward Miao

Kevin Wang ('22)
SoxN and Svb regulation through Wg
Mentor: Amy Bejsovec

Angela Wei ('23)
A three-dimensional human iPSC-based Alzheimer’s disease modeling system for establishing gene therapy approaches
Mentor: Ornit Chiba-Falek

Catherine Yao ('22)
Intestinal epithelial regeneration after small bowel transplantation
Mentor: Babak Mirminachi

Claire Yin ('22)
Activities of Brachyury: a transcription factor in a dynamic system
Mentor: David McClay

Physical Sciences

Dhanasheel Muralidharan ('23)
Azostilbene-derived Small Molecules and Their Interactions with MALAT-1 Long Noncoding RNA Structure
Mentor: Amanda Hargrove

Junzhe Zhou ('22)
Probing cosmology with intrinsic alignment of galaxies in weak gravitational lensing surveys
Mentor: Michael Troxel

Quantitative Sciences

Yijia Liu ('23)
Spectral Analysis of Time Series using Multitaper Method
Mentor: Hau-Tieng Wu
Megan Richards ('22)
Evaluating robustness in interpretable diagnosis modeling for cervical cancer detection
Mentor: Nimmi Ramanujam

Social Sciences

Matthew Majsak ('22)
Exploring Political Engagement Amongst North African Youth, 10 Years After the Arab Spring
Mentor: Mbaye Lo

Camden Nelson ('22)
Effects of Virtual Format of Religious Services on Well Being
Mentor: Patty Van Cappellen

Anh-Huy Nguyen ('22)
Differences in STEM Graduation Rates for Underrepresented Minorities Across the University of California System
Mentor: Peter Arcidiacono

Sihan (Jen) Wang ('23)
Longhand, Laptop and e-Writer Note-taking and Their Effects on Student Learning
Mentor: Bridgette Hard

Jessie Xu ('22)
Financing Affordable Mortgages to Close the Racial Wealth Gap: A Partnership with Self-Help Credit Union
Mentor: Charlie Becker